

WHAT IS CLAIMED IS

1. A synchronizing mechanism for office chairs, comprising
  - a base carrier (1) to be placed on a chair column,
  - a backrest carrier (3), which is articulated to the base carrier (1) such
  - 5 that it is pivotable about a transverse axis (5),
  - a seat carrier (4), which is pivotable about a transverse axis (11) in A region of its front end via a turning-and-sliding joint (17) and slideable in a longitudinal direction (SL) of the seat together with the base carrier (1), and coupled with the backrest carrier (3) such that it pivots in a re-
  - 10 gion of its back end about a transverse axis (22), as well as
  - a spring arrangement (23) to actuate the synchronizing mechanism to counter its synchronized adjusting motion of the seat carrier (4) and backrest carrier (3),
  - wherein the spring arrangement (23) incorporates at least one helical
  - 15 compression spring (24) disposed essentially parallel to a sliding direction of the seat carrier (4), flat underneath the same,
  - wherein for each helical compression spring (24) a counter-bearing extension arm (25) is provided, a front end of which is articulated to the base carrier (1) and a rear-facing end of which, freely projecting, forms
  - 20 a counter bearing (27) for a rear support of the helical compression spring (24), and
  - wherein the at least one helical compression spring (24) is supported in each case with its front end on a counter bearing (28) formed on the seat carrier (4).
- 25 2. A synchronizing mechanism according to claim 1, wherein to adjust a pretension of the at least one helical compression spring (24), the associ-

ated counter-bearing extension arm (25) is supported slideable in the longitudinal direction (SL) on the base carrier (1).

3. A synchronizing mechanism according to claim 2, wherein the counter-bearing extension arm (25) is slidably supported on the seat carrier (4) by means of a bearing head (26) on an adjusting shaft (11) forming a transverse axis of the turning-and-sliding joint (17), said adjusting shaft (11) carrying in each case one eccentric cam (35) for adjusting the associated counter-bearing extension arm (25).

4. A synchronizing mechanism according to claim 3, wherein a spring package of multiple helical compression springs (24) is provided, a combined pretension of which is variable in narrow steps by means of a varying gradation of the individual eccentric cams (35) of the adjusting shaft (11).

5. A synchronizing mechanism according to claim 1, wherein the counter-bearing extension arms (25) are designed as rods on which the helical compression springs (24) are placed.

6. A synchronizing mechanism according to claim 1, wherein the at least one helical compression spring (24) as a counter bearing for the seat carrier (4) is supported via a bearing strip (28) extending perpendicular to the longitudinal direction (SL), which is pivotably slide-mounted in a bearing-cutout.

7. A synchronizing mechanism according to claim 3, wherein the bearing head (26) of the given counter-bearing extension arms (25) is designed as a frame, frame walls (33) of which that extend parallel to the longitudinal direction (SL) have an elongated-hole type bearing cutout (34), by means of which the counter-bearing extension arm (25) is slidably supported on the adjusting shaft (11).

8. A synchronizing mechanism according to claim 7, wherein the front frame wall (37) of the given bearing head frame (26) is actuated by the associated eccentric cam (35).
9. A synchronizing mechanism according to claim 1, wherein at least one counter-bearing extension arm (25) is provided at its rear-facing end with a supplemental counter bearing (38) that is adjustable in the longitudinal direction (SL).
10. A synchronizing mechanism according to claim 9, wherein the adjustable supplemental counter bearing is formed by a slider (39) that is slidably guided on the counter-bearing extension arm (25), said slider (39) being actuatable by an eccentric cam shaft (41).
11. A synchronizing mechanism according to claim 10, wherein the eccentric cam shaft (41) is mounted on a bearing brace (43) that extends backward from the front end of the counter-bearing extension arm (25).